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7/26/05

App. No. App. No. 10/650,263
Amdt. Dated July 19, 2005
Reply to Office Action of May 19, 2005
Atty. Dkt. No. 9278-100 (formerly 9129-111)

AMENDMENTS TO THE CLAIMS:

1. (Cancelled) An apparatus for high resolution imaging of a sample, comprising:
 - a SQUID evacuated dewar;
 - a SQUID sensor cooperating with the dewar to sense magnetic flux from the sample being imaged, said sensor having a detection coil;
 - a cold finger;
 - said dewar having a thin window;
 - means for mounting the sensor remotely from the coil;
 - the detection coil being electrically connected to the SQUID sensor;
 - a mechanism for mounting the detection coil at the distal end of the cold finger in close proximity to the thin window;
 - a radiation shield mounted within the dewar and having an extension surrounding the detection coil to help maintain its cold temperature; and-
 - wherein the extension prevents or reduces circular currents in the plane of the detection coil.
2. (Currently Amended) An apparatus according to claim 1 ~~4~~ 40, further including a thick backing window overlying the thin window on the vacuum side thereof.